

Clark, Nadine

From: Jeffrey Helvey [JHELVEY@skgf.com]
Sent: Thursday, September 29, 2005 12:37 PM
To: Clark, Nadine
Subject: Drawings : 09/665,581

Ms. Clark,

The drawings are attached as a PDF. Please contact me if you have any further questions.

Jeff Helvey
(202)772-8675 (voice)

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SEP 29 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Erlend Olson
Appl. No.: 09/665,581
Filed: September 18, 2000
For: **Direct Conversion Tuner**

Confirmation No.: 4718
Art Unit: 2685
Examiner: Nguyen, Duc M.
Atty. Docket: 1875.0160000

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Submission of Drawings

SEP 29 2005

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are 19 sheets of Replacement drawings with Figures 1A, 1B, 2, 3A, 3B, 4, 5, 6A, 6B, 7, 8, 9, 10A, 10B, 11, 12, 13, 14A, 14B, 15 and 16, corresponding to the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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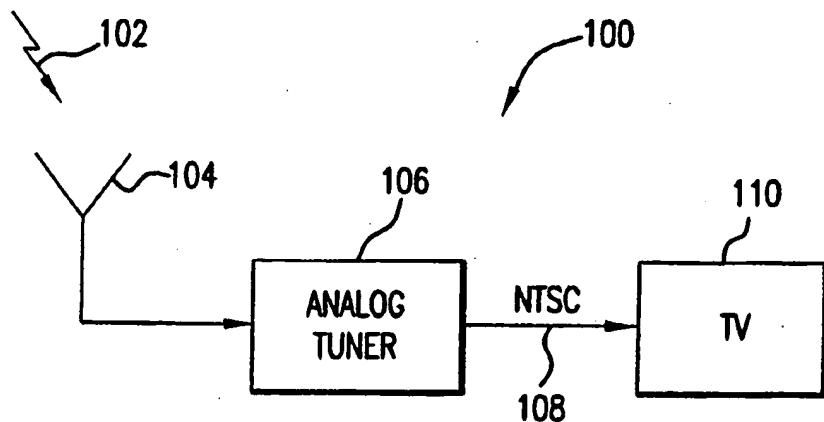


FIG.1A

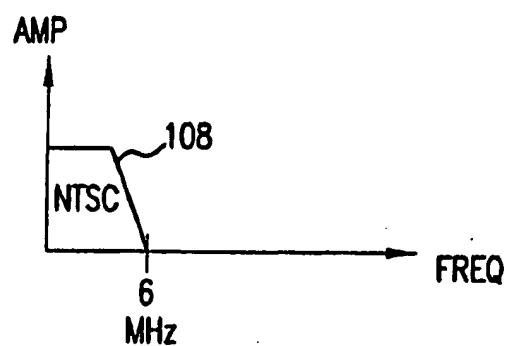


FIG.1B

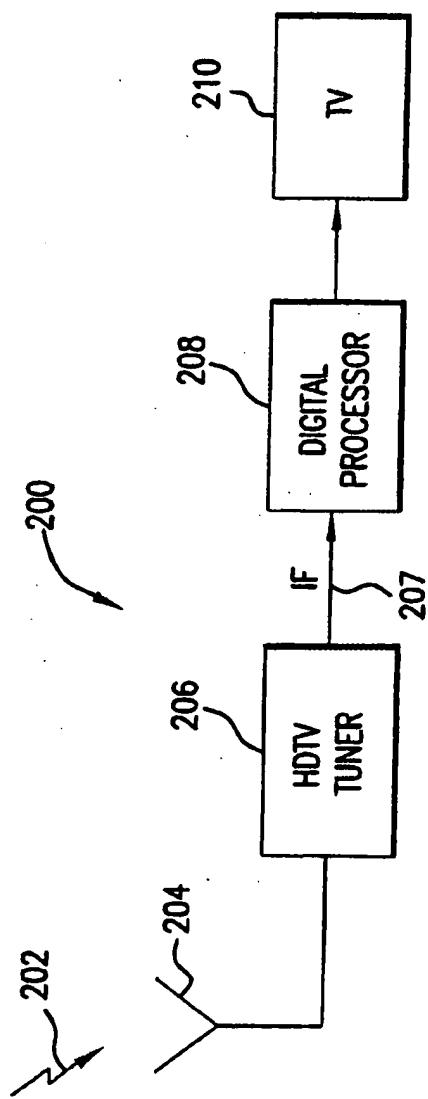


FIG.2

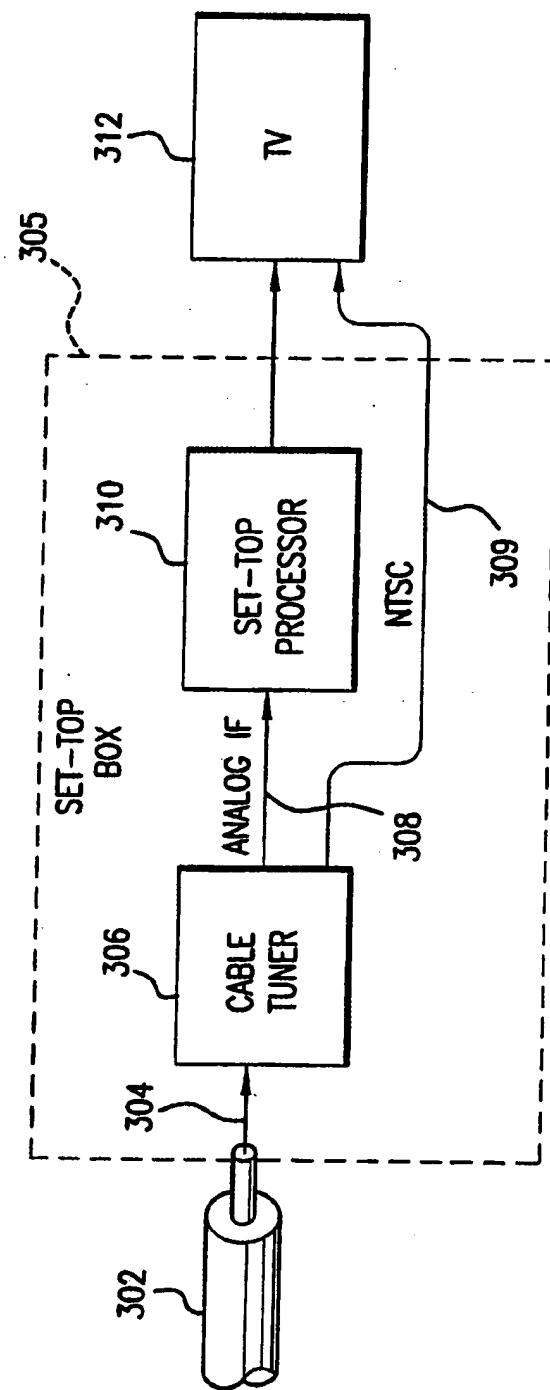


FIG.3A

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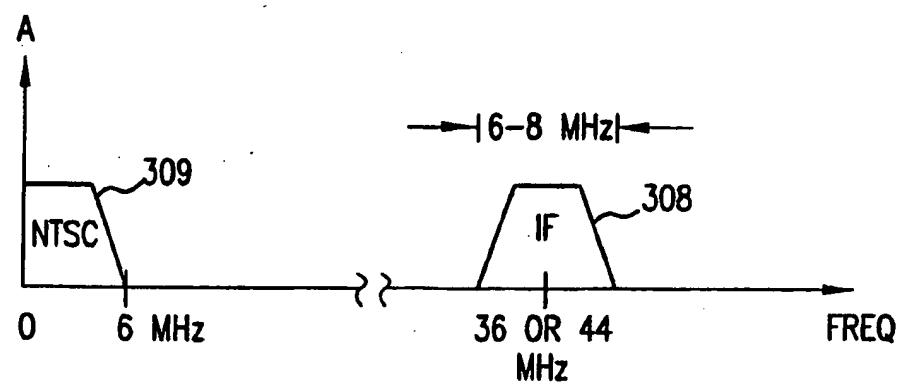


FIG.3B

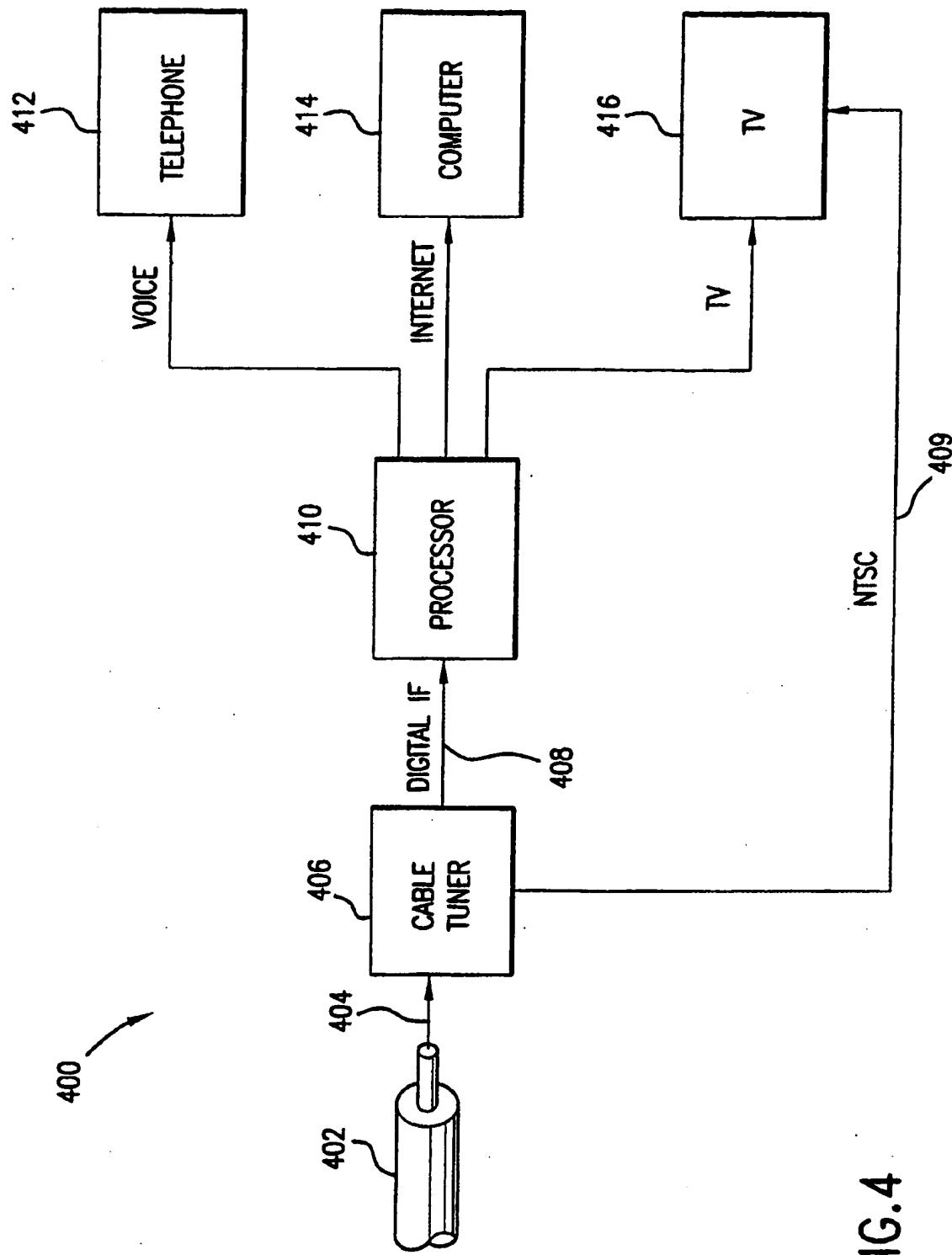


FIG.4

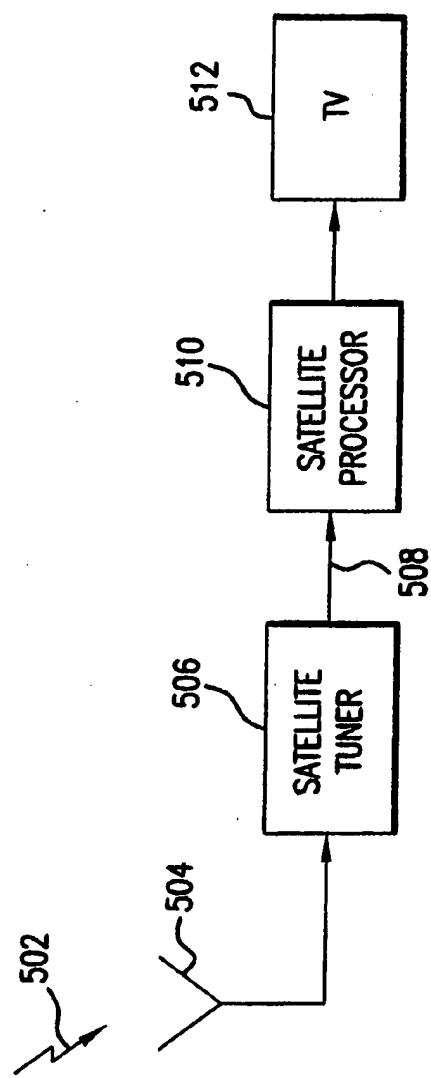


FIG.5

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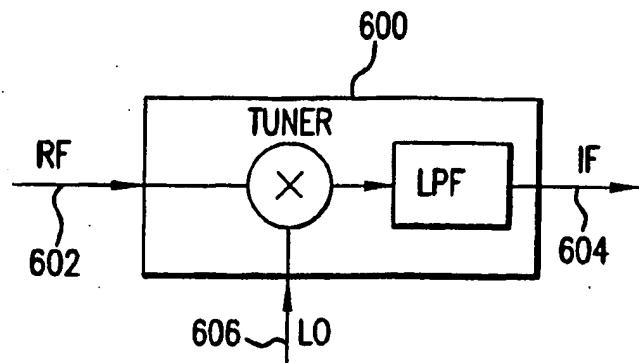


FIG.6A

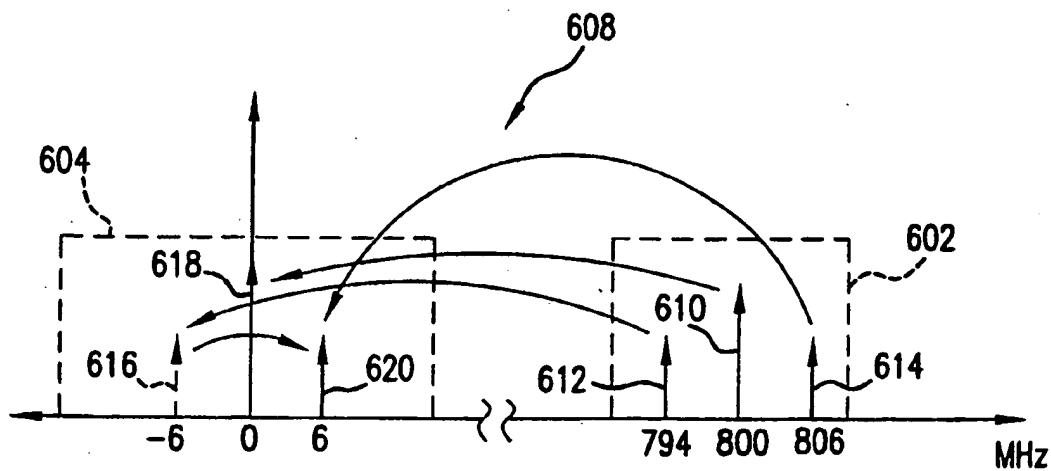


FIG.6B

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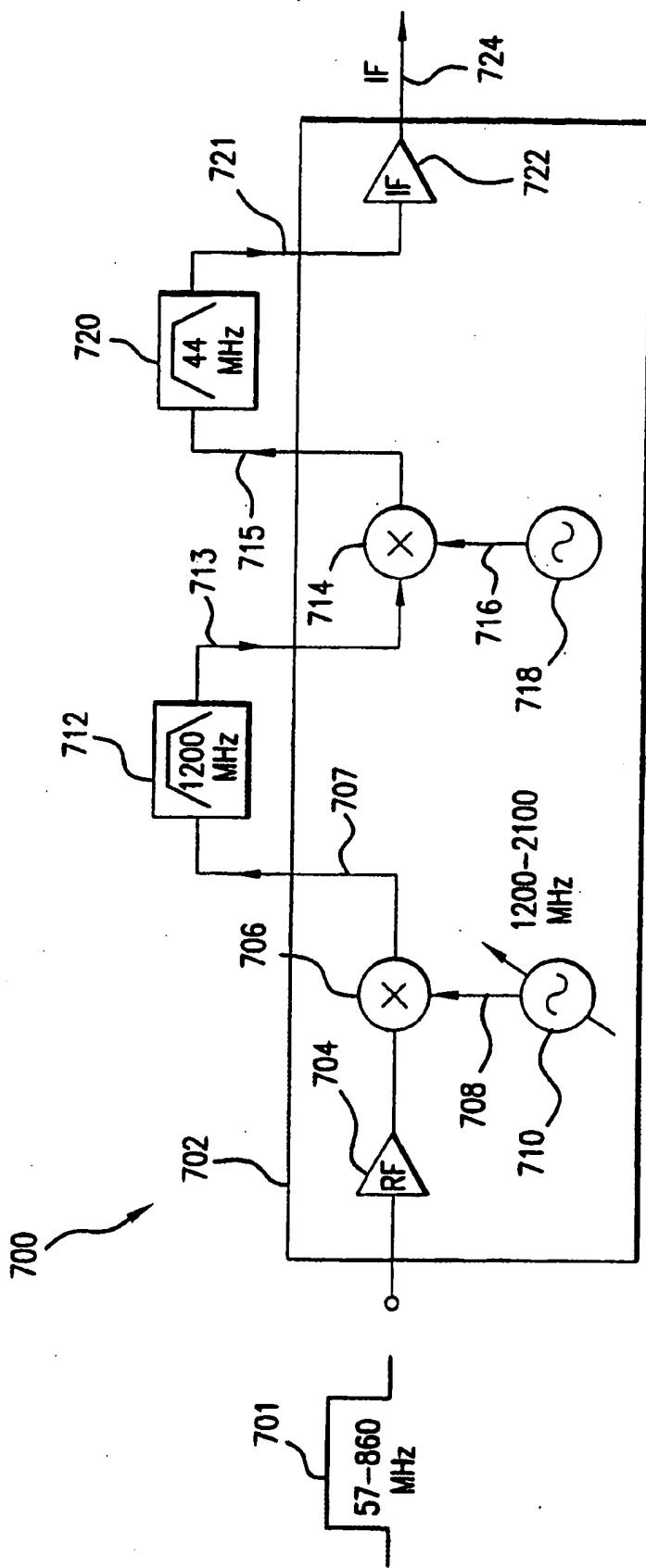


FIG. 7

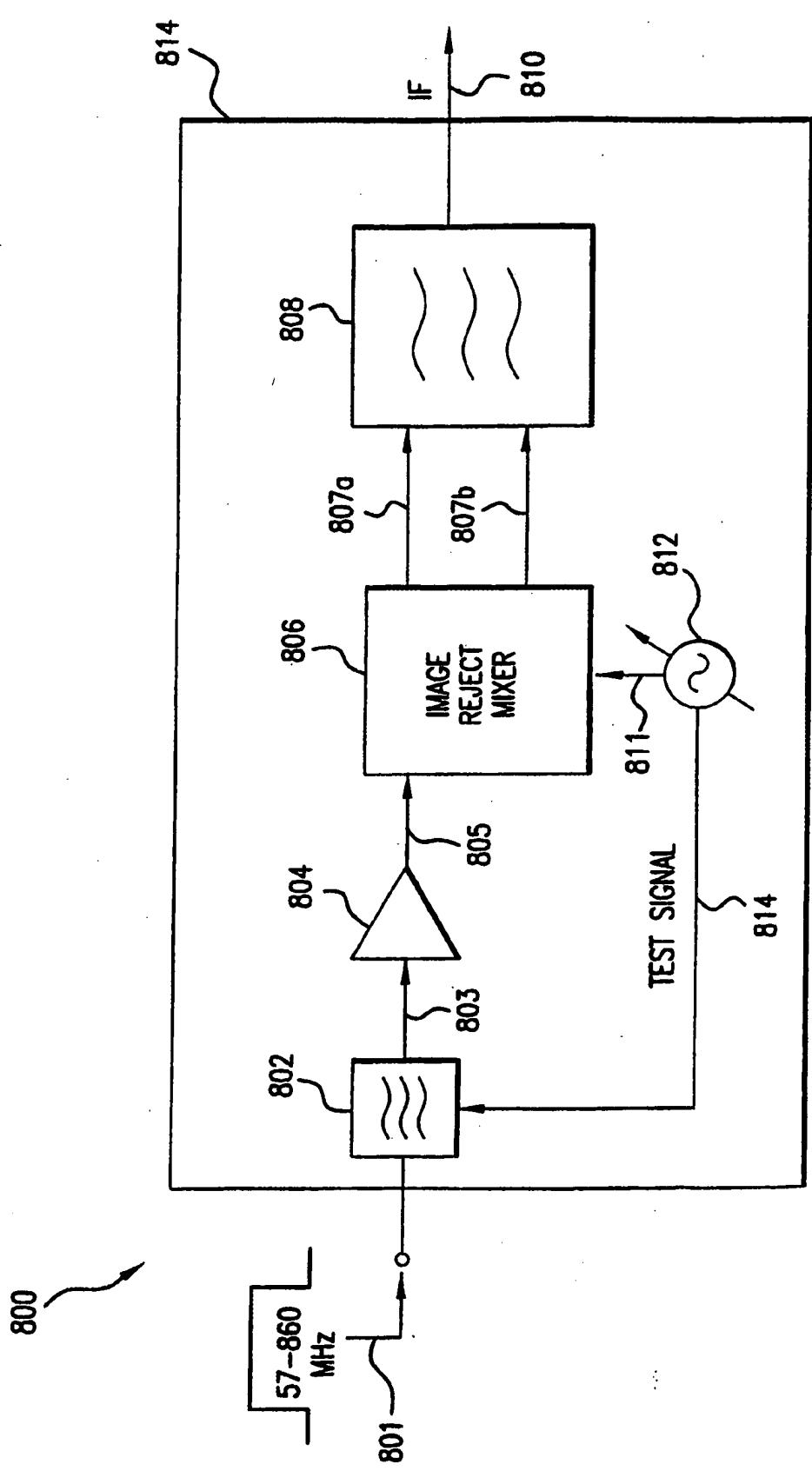


FIG.8

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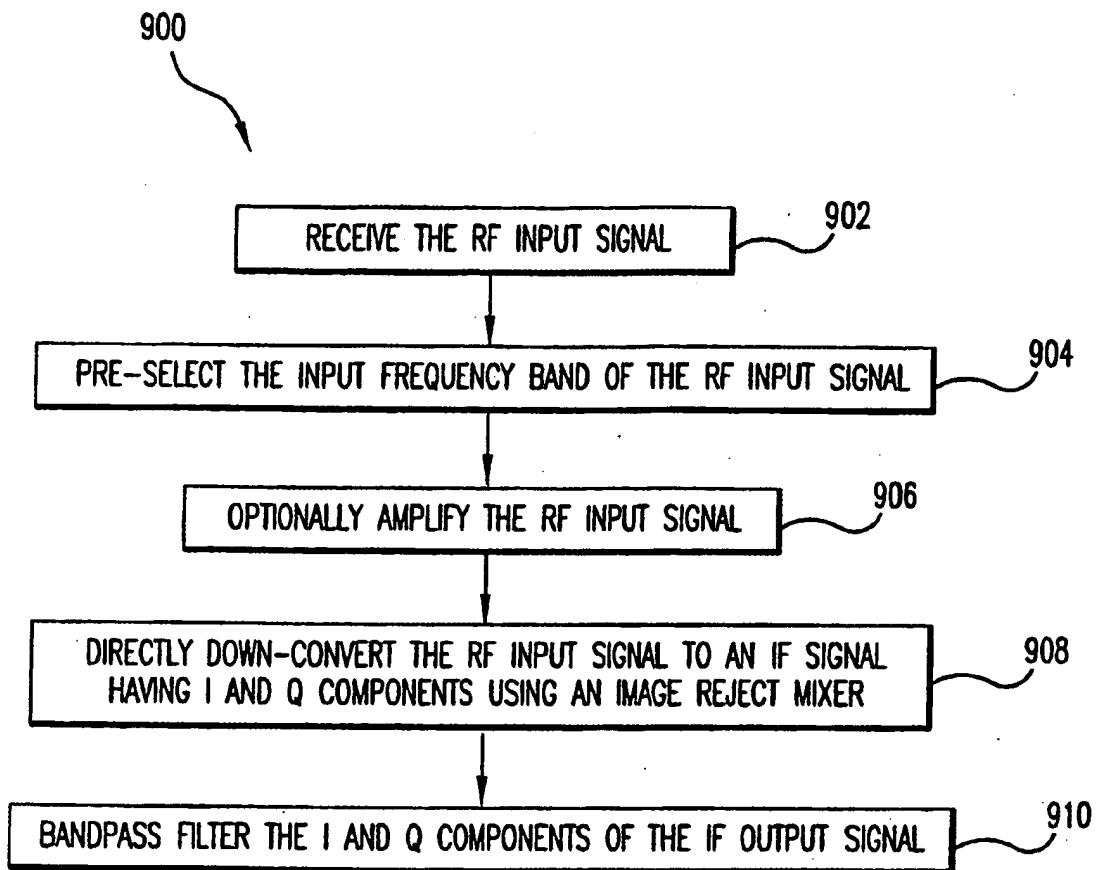


FIG.9

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CHANNEL	CHANNEL FREQUENCY (MHz)	LO FREQUENCY (MHz)	IF FREQUENCY (MHz)
2	57	93 OR 21	36
3	63	99 OR 27	36
3	69	105 OR 33	36
4	75	111 OR 39	36
•	•	•	•
•	•	•	•
•	•	•	•
134	848	884 OR 812	36
135	854	890 OR 818	36
136	860	896 OR 824	36

FIG.10A

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CHANNEL	CHANNEL FREQUENCY (MHz)	LO FREQUENCY (MHz)	IF FREQUENCY (MHz)
2	57	101 OR 13	44
3	63	107 OR 19	44
3	69	113 OR 25	44
4	75	119 OR 31	44
•	•	•	•
•	•	•	•
•	•	•	•
134	848	892 OR 804	44
135	854	898 OR 812	44
136	860	904 OR 820	44

FIG.10B

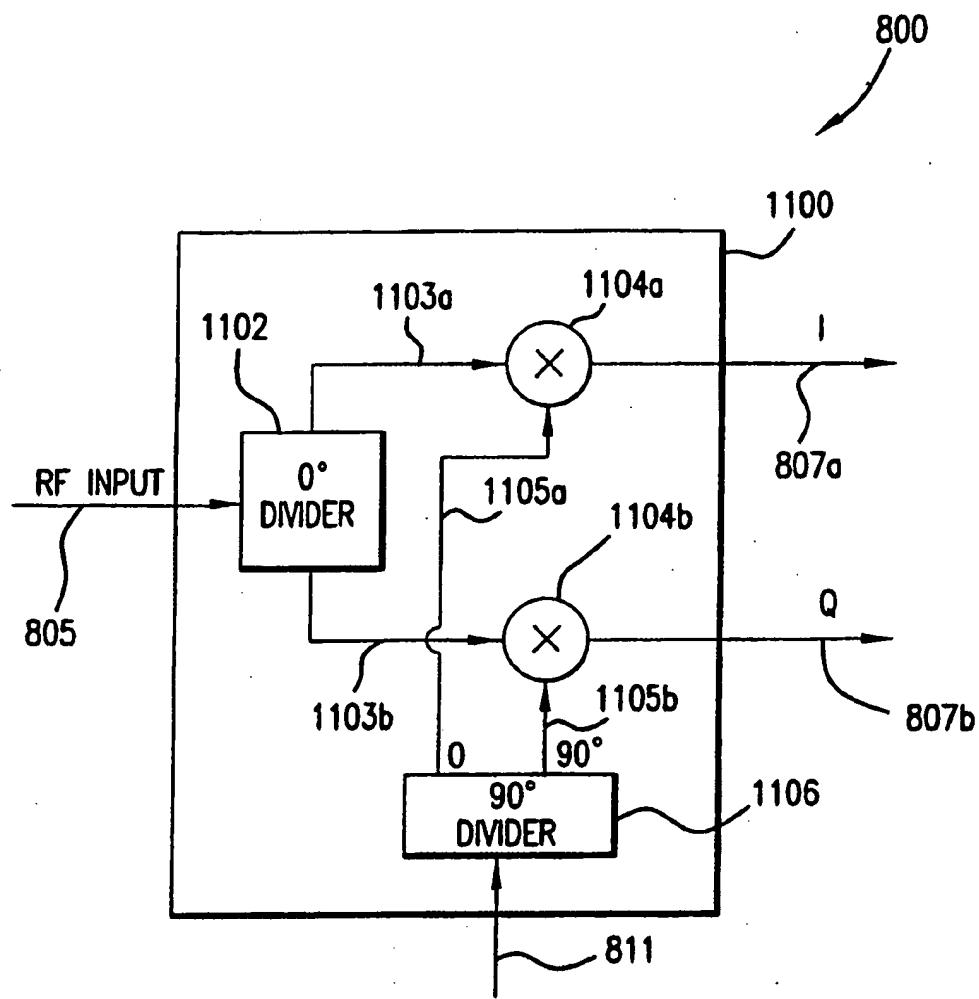


FIG.11

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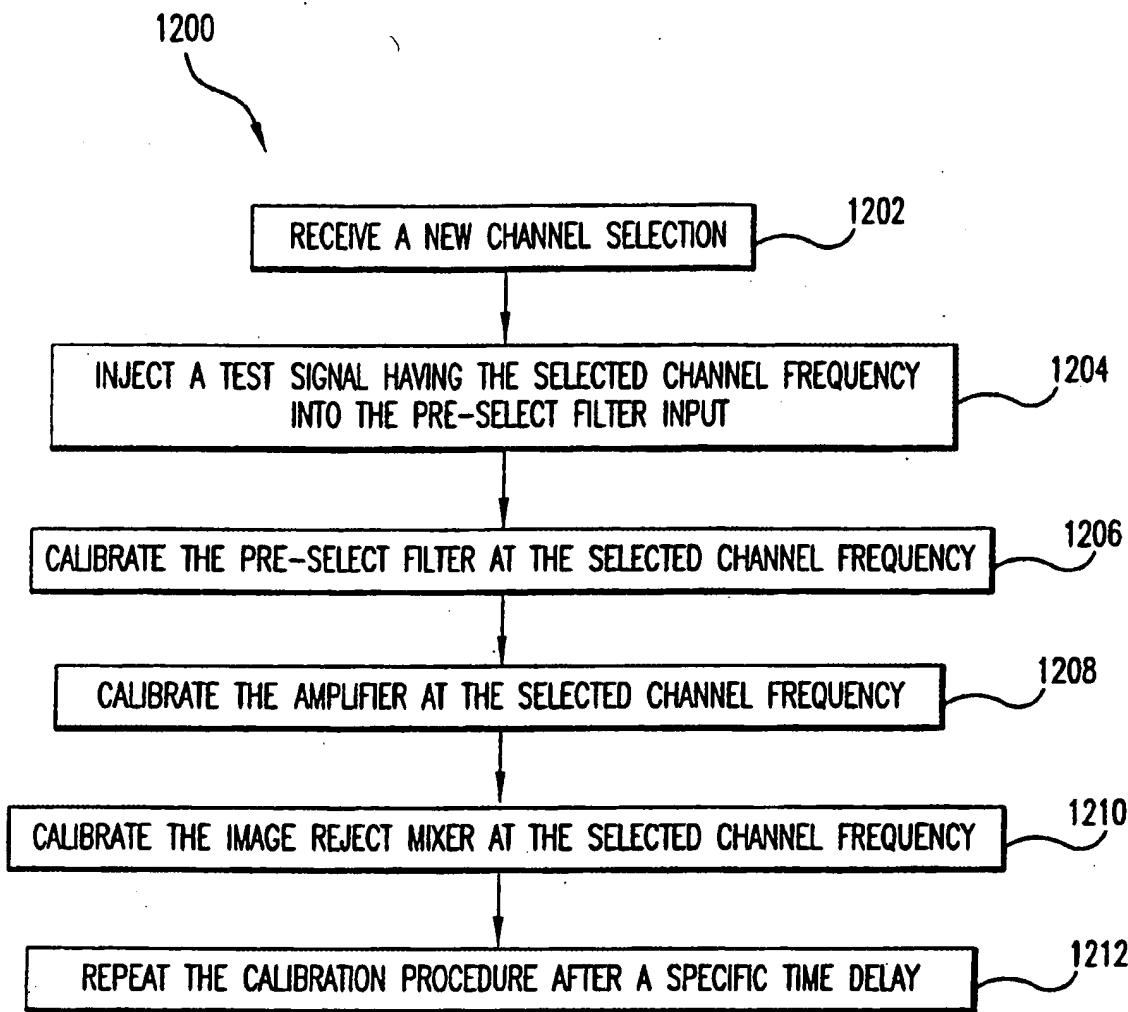


FIG.12

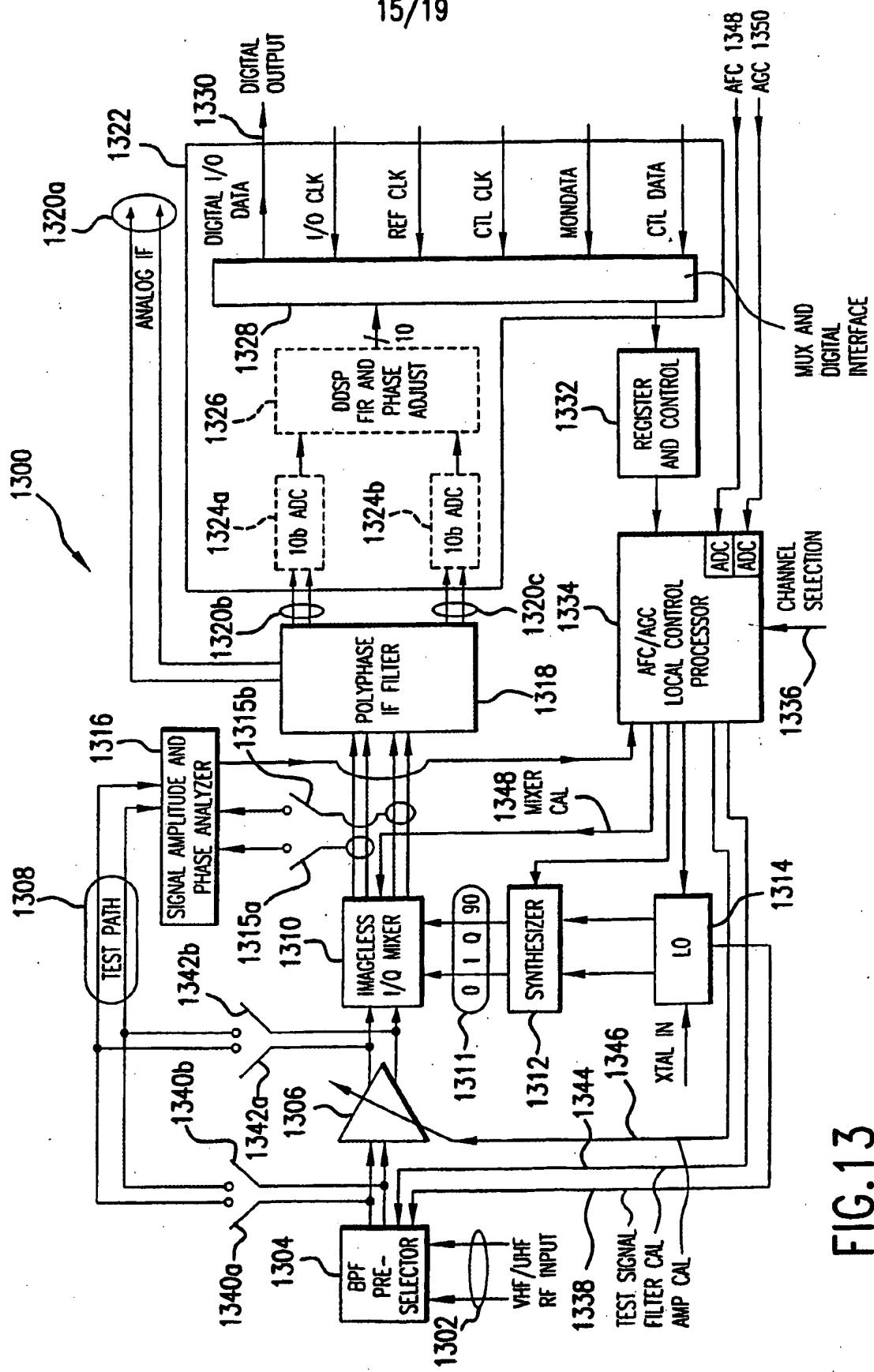


FIG. 13

1400

RECEIVE A NEW CHANNEL SELECTION BASED ON A USER REQUEST

1402

INJECT A TEST SIGNAL HAVING THE SELECTED CHANNEL
FREQUENCY INTO THE INPUT FILTER

1404

MEASURE THE I/Q BALANCE OF THE PRE-SELECT FILTER,
AND BYPASS THE INPUT AMPLIFIER AND IMAGE REJECT MIXER

1406

ADJUST THE FILTER PARAMETERS TO MAXIMIZE THE I/Q BALANCE
OF THE PRE-SELECT FILTER AT THE SELECTED CHANNEL FREQUENCY

1408

REPEAT STEPS 1404 TO 1408 AS NECESSARY TO ACHIEVE
SUFFICIENT FILTER I/Q BALANCE

1410

RE-INJECT THE TEST SIGNAL HAVING THE SELECTED CHANNEL
FREQUENCY INTO THE INPUT FILTER

1412

MEASURE THE I/Q BALANCE OF THE AMPLIFIER,
AND BYPASS THE IMAGE REJECT MIXER

1414

FIG.14A

1400 (CONT.)

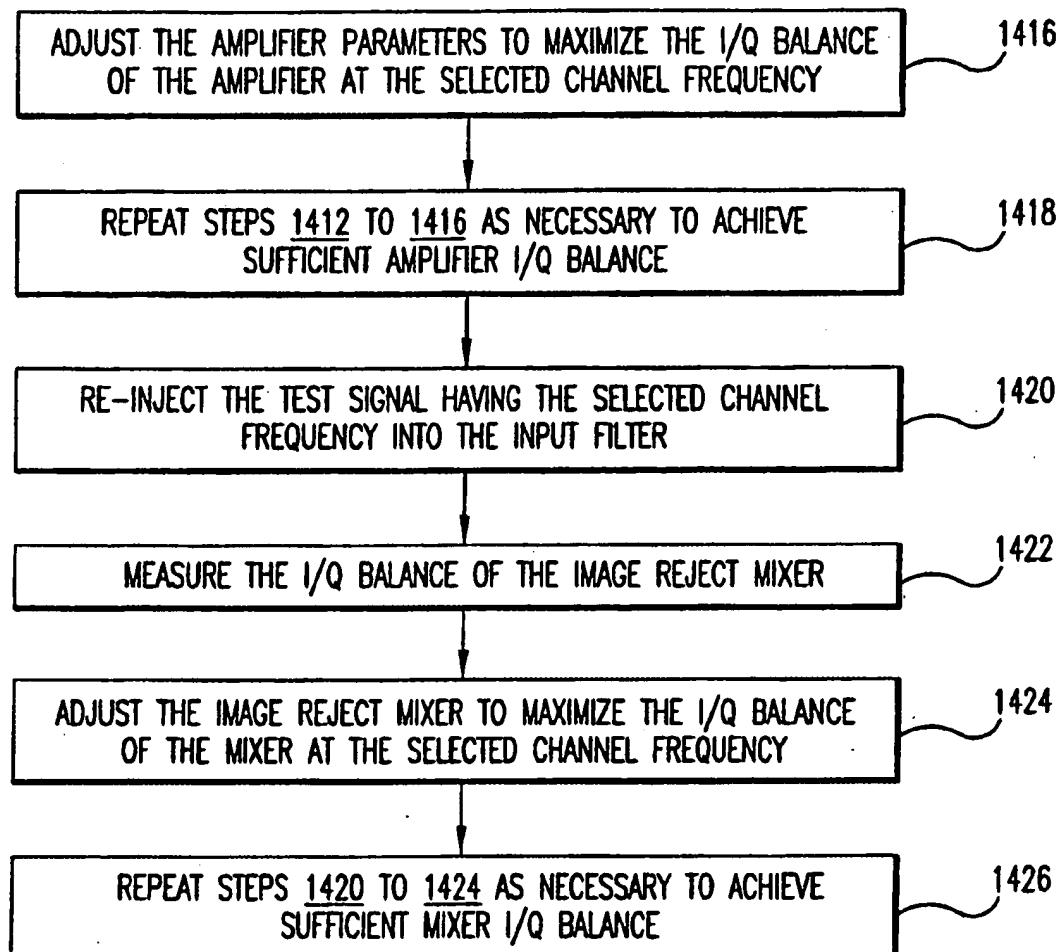


FIG.14B

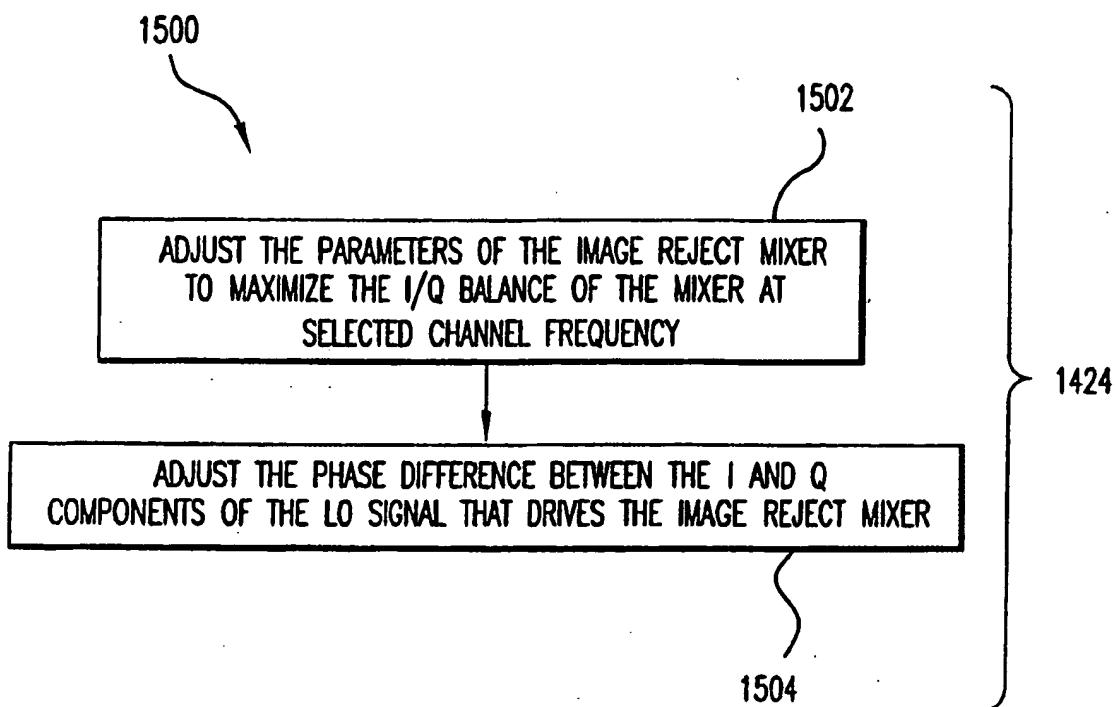


FIG.15

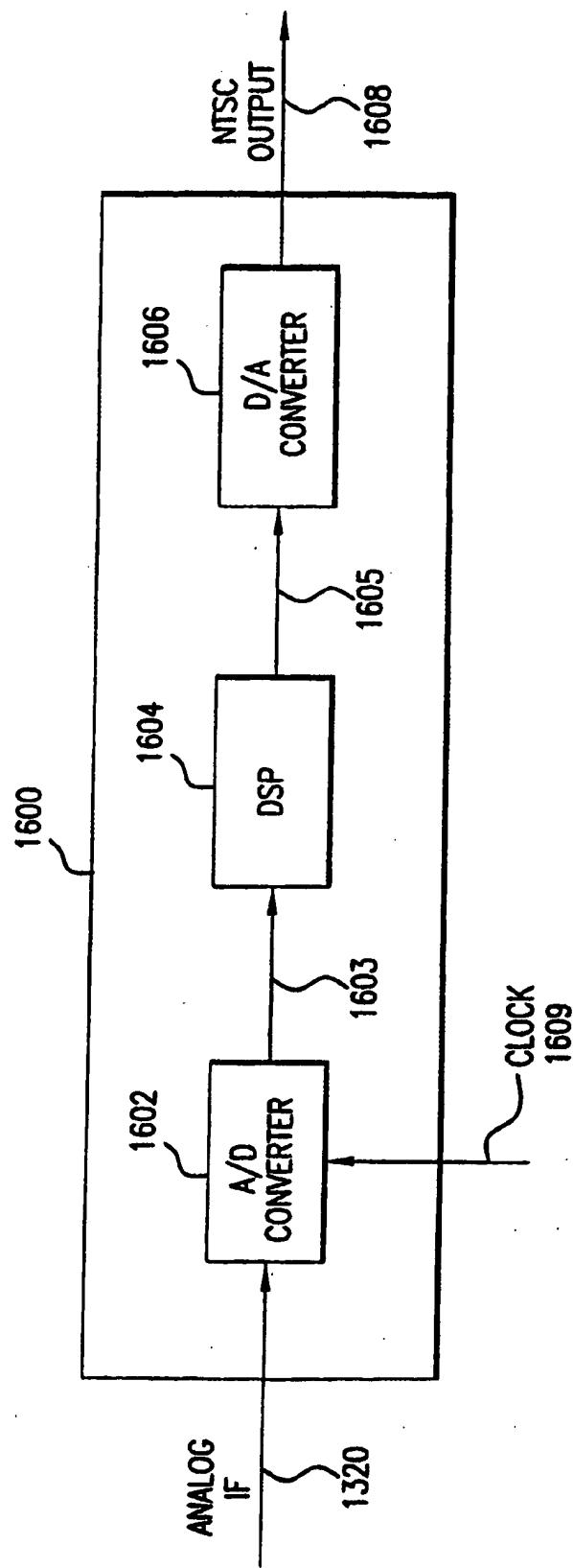


FIG. 16